

30/1/24

WEEK-7

```
import java.util.Scanner;  
class WrongAge extends Exception  
{
```

```
    public WrongAge()  
    {
```

```
        super("Age Error");  
    }
```

```
    public WrongAge(String message)  
    {
```

```
        super(message);  
    }
```

```
}
```

```
class InputScanner  
{
```

```
    protected Scanner s;
```

```
    public InputScanner()  
    {
```

```
        s = new Scanner(System.in);  
    }
```

```
}
```

```
class Father extends InputScanner
```

```
{
```

```
    protected int fatherAge;
```

```
    public Father() throws WrongAge  
    {
```

```
        System.out.println("Enter the Father's age :");  
        fatherAge = s.nextInt();
```

```
        if (fatherAge < 0)  
        {
```

```
            throw new WrongAge("Age  
cannot be negative");  
        }
```

```

    }

    public void display()
    {
        System.out.println("Father's
        Age : " + FatherAge);
    }
}

class Son extends Father
{
    private int sonAge;
    public Son() throws WrongAge
    {
        super();
        System.out.println("Enter
        Son's age : ");
        sonAge = s.nextInt();
        if (sonAge >= fatherAge)
        {
            throw new WrongAge("Son's
            age cannot be greater than father's
            age");
        }
        else if (sonAge < 0)
        {
            throw new WrongAge("
            Age cannot be negative");
        }
    }
}

public void display()
{
    super.display();
    System.out.println("Son's Age : " +
    sonAge);
}
}

```

```

public class Age
{
    public static void main(String[] args)
    {
        try
        {
            Son son = new Son();
            son.display();
        }
        catch (WrongAge e)
        {
            System.out.println("Exception -"
            + e.getMessage());
        }
    }
}

```

OUTPUT:

① Enter the father's age:

35

Enter Son's age:

-12

Exception: Age cannot be negative

② Enter the father's age:

40

Enter Son's age:

45

Exception: Son's age cannot be greater than father's age.

30/01/24